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DERWENT-ACC-NO: 1995-057355

DERWENT-WEEK: 200457

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TITLE: Prepn. of rigid polyurethane foam - comprises
reacting
of
organic poly:isocyanate and poly:ol in presence
emulsion dispersion

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PATENT-ASSIGNEE: AIR PROD & CHEM INC [AIRP] , NIPPON NYUKAZAI CO LTD [NINYN]

PRIORITY-DATA: 1993JP-0073679 (March 31, 1993) , 1994EP-0115194 (September 27, 1994) , 1996US-0646432 (May 7, 1996) , 1994CN-0117494 (October 20, 1994) , 1994KR-0025632 (October 7, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
CN 1039422 C	August 5, 1998	N/A
000 C08G 018/32		
JP 06336513 A	December 6, 1994	N/A
007 C08G 018/32		
EP 704474 A1	April 3, 1996	E
010 C08J 009/00		
TW 305855 A	May 21, 1997	N/A
000 C08G 069/00		
US 5668187 A	September 16, 1997	N/A
006 C08G 018/30		
CN 1121085 A	April 24, 1996	N/A
000 C08G 018/32		
KR 159915 B1	January 15, 1999	N/A
000 C08G 018/63		

DESIGNATED-STATES: BE DE FR GB IT NL

CITED-DOCUMENTS: EP 313179; EP 340797 ; EP 37112 ; EP 516277 ; EP 5549 ; FR 1356528

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
CN 1039422C October 20, 1994	N/A	1994CN-0117494
JP 06336513A March 29, 1994	N/A	1994JP-0059037
EP 704474A1 September 27, 1994	N/A	1994EP-0115194
TW 305855A October 27, 1994	N/A	1994TW-0109923
US 5668187A September 22, 1994	Cont of	1994US-0310534
US 5668187A May 7, 1996	N/A	1996US-0646432
CN 1121085A October 20, 1994	N/A	1994CN-0117494
KR 159915B1 October 7, 1994	N/A	1994KR-0025632

INT-CL (IPC): C08G018/04, C08G018/08, C08G018/30, C08G018/32, C08G018/40, C08G018/63, C08G069/00, C08J009/00, C08J009/02, C08J009/12, C08K005/01, C08L075/04, C08G018/32, C08G101:00

ABSTRACTED-PUB-NO: JP 06336513A

BASIC-ABSTRACT:

Prepn. of rigid polyurethane foams, comprises reacting (a) organic polyisocyanate and (b) polyol in presence of (c) emulsion dispersions contg. polymers obtd. from ethylenically unsatd. monomers.

The emulsion dispersion (c) is obtd. as follows: aq. emulsions contg. 20-70 pts. wt. of the monomer are mixed at 40-90 deg.C for 2-10 hrs.. The emulsion contains 0.1-10 pts. wt. of emulsifiers and 0.1-2 pts. wt. of polymerisation initiators based on 100 pts. wt. of the monomer.

USE/ADVANTAGE - The rigid polyurethane foams with improved mechanical properties is obtd. by foaming mixts. contg. water as a foaming agent.

ABSTRACTED-PUB-NO: US 5668187A

EQUIVALENT-ABSTRACTS:

In a process for the preparation of rigid polyurethane foam by

reacting an organic polyisocyanate with a polyol in the presence of a urethane catalyst, a blowing agent and a silicone surfactant cell stabilizer, the improvement which comprises using as a blowing agent an aqueous polymer emulsion comprising a polymer of ethylenically unsaturated monomers selected from the group consisting of styrene, methyl methacrylate, butyl acrylate, 2-ethylhexyl acrylate, 2-hydroxyethyl acrylate or methacrylate, mono-acrylate or -methacrylate of polyethylene glycol, acrylic acid, methacrylic acid, and mixtures thereof, the aqueous polymer emulsion being used at 0.5 to 20 parts polymer/100 parts polyol.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PREPARATION RIGID POLYURETHANE FOAM COMPRISE REACT ORGANIC POLY

ISOCYANATE POLY OL PRESENCE EMULSION DISPERSE

DERWENT-CLASS: A25

CPI-CODES: A07-A04E; A08-B; A11-B06; A12-S02C; A12-S04A; A12-S04A1;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; G1843*R D01 F73 ; G1025*R G0997 D01 F28 F26 G1070*R F29
G1149*R

G1092 D18 F32 F30 G1274*R F33 ; P1592*R F77 D01 ; S9999 S1309*R
; L9999 L2528 L2506 ; L9999 L2824

Polymer Index [1.2]

017 ; ND04 ; K9745*R ; B9999 B3747*R

Polymer Index [1.3]

017 ; B9999 B4079 B3930 B3838 B3747 ; B9999 B3747*R ; N9999 N6086

Polymer Index [1.4]

017 ; R01740 D00 F20 H* O* 6A ; A999 A271 A260

Polymer Index [2.1]

017 ; G0022*R D01 D51 D53 ; H0000 ; H0011*R ; S9999 S1025 S1014
; L9999 L2573 L2506 ; L9999 L2528 L2506 ; L9999 L2551 L2506

Polymer Index [2.2]

017 ; ND04 ; K9745*R ; B9999 B3747*R

Polymer Index [2.3]

017 ; C999 C088*R C000 ; C999 C293

Polymer Index [2.4]

017 ; A999 A635 A624 A566